



CDF Operations Report

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February 23, 2004

All Experimenters Meeting



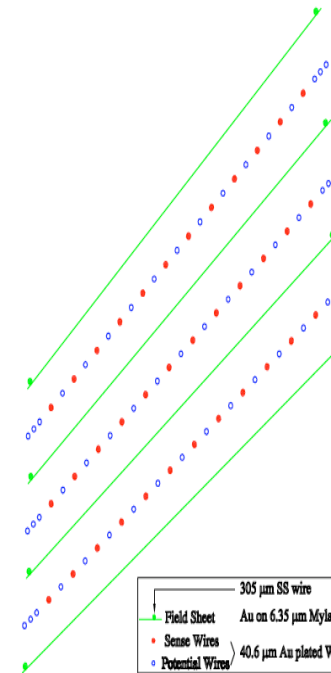
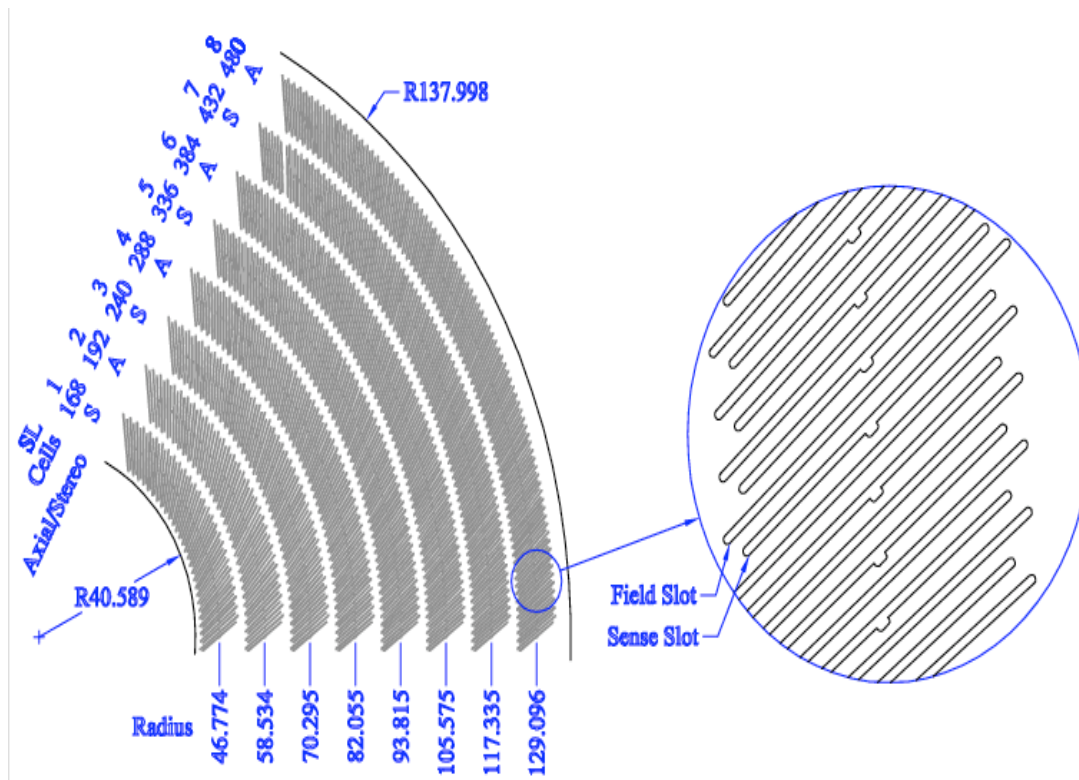
This Week's Stores

Date	Store	Inst Lum (initial)	Delivered Lum [nb ⁻¹]	Lum to tape nb ⁻¹ (ε)	Comment
Su 2/15	3237	61.1e30	2872	2252 (78%)	SVX trip, TRF8 ⇒ high losses
Tu 2/17	3240	59.4e30	2781	2121 (76%)	N ₂ added to COT gas, A.G., TeV studies
We 2/18	3245	66.0e30	3353	2744 (82%)	SVX off, Flaky LOSTP signal
Fr 2/20	3247	19.2e30	376	255 (68%)	Recycler shot and studies
Sa 2/21	3249	54.0e30	2448	2295 (94%)	
Su 2/22	3252	59.8e30			
Total			11830	9666 (82%)	



Reminder of basic design and geometry

■ 1/6 Section of COT End Plate (Super Layer / S





COT Actions

Timeline of actions taken to mitigate further degradation and understand the reason for aging.

■ Friday (2/13)

- SL 1 and 2 turned off
- HV on SL 3,4, and 5 lowered by ~5%, reducing gain by ~50%
- XFT: all of SL2 masked on, SL4 set to 3-miss

■ Tuesday (2/17)

- Begin adding about 5% N₂ to the COT gas

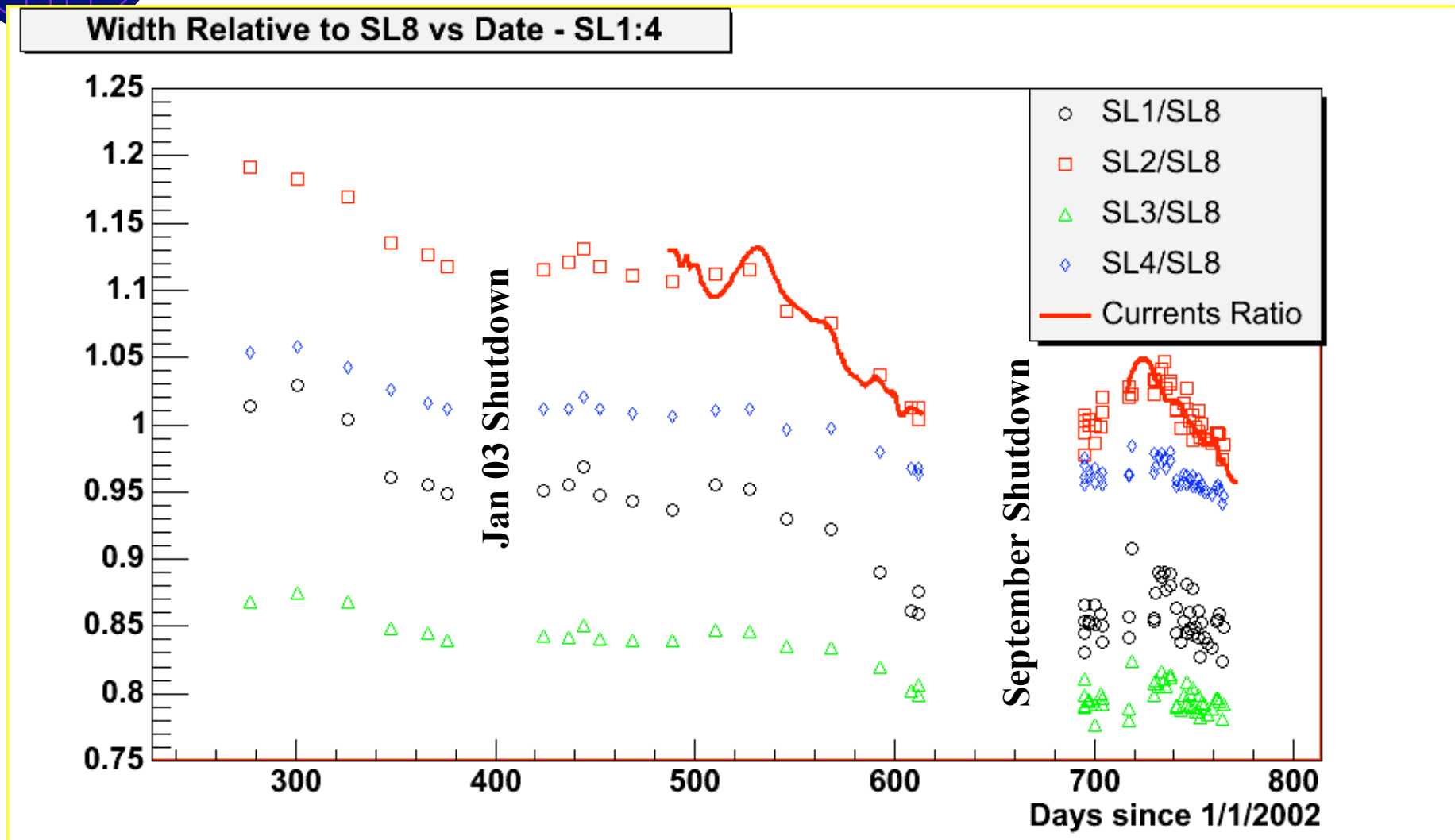
■ Wednesday (2/18)

- Silicon switched off and warmed to 15C (“cold spot”)
- COT HV back to 100% on all superlayers

■ We’re still running this way and will switch back to compromised COT configuration when the test is complete.



Chamber Current .vs. time



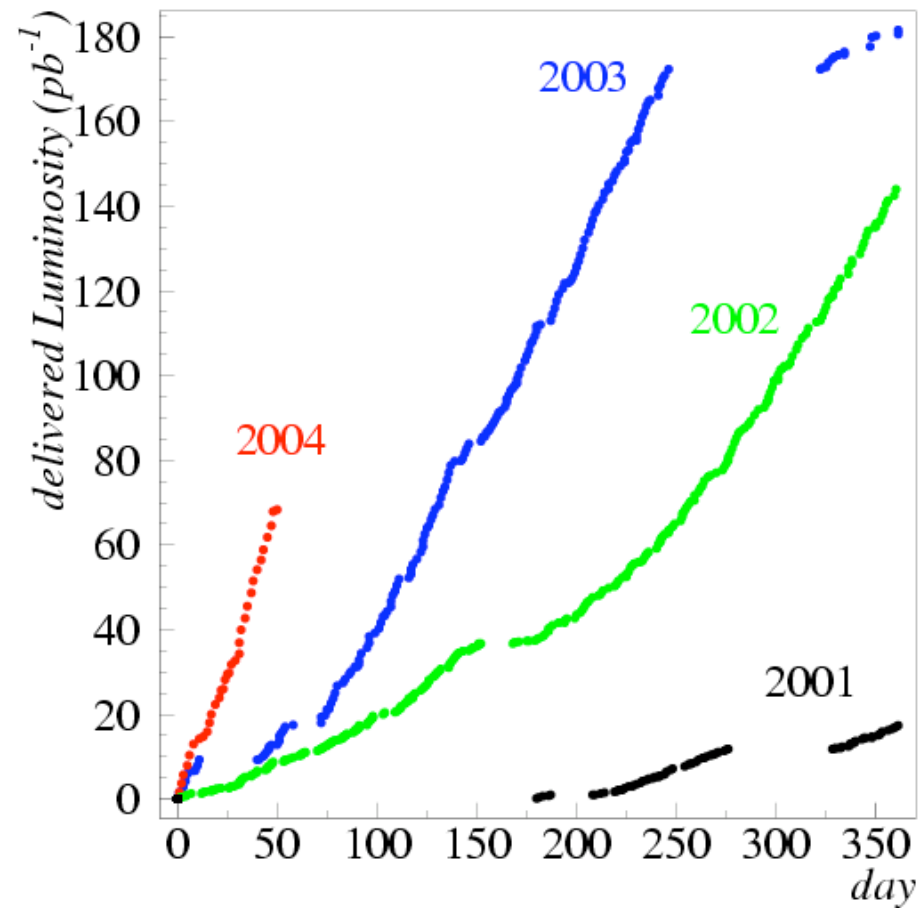


Summary

- Tests are underway to check if the aging is correlated with N_2 in the gas mix, or with a “cold spot”.
- Work continues to improve triggers -- numerous tests performed during the last week.
- Remainder of detector is performing well.



Luminosity by Calendar Year





Luminosity by Fiscal Year

